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THE BRYOLOGIST

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LICHENS OF THE MOUNT MONADNOCK REGIONS, N. H. No. 4.

(See BRYOLOGIST, XI, March and July, 1908, XII, March, 1909.)

By R. HEBER HOWE, Jr.

GENUS: PHYSCIA (DC., FR.) TH. FR.

54. PHYSCIA SPECIOSA (Wulf., Ach.) Nyl. Five specimens thus labelled belong here. Three specimens first labelled "*Parmelia tribacia*," and later corrected, also belong here. One fruited specimen, first labelled "*Physcia caesia* v. *Stellata*," later corrected to "*speciosa*" is *P. tribacia*.
55. PHYSCIA HYPOLEUCA (Muhl.) Tuck. Four fertile specimen thus labelled all belong here
56. PHYSCIA AQUILA DEFOUSA Tuck. Two specimens, one fertile, labelled thus, belong here. Also two specimens labelled "*aquila*," one fertile specimen labelled "*Physcia ciliaris*," one fertile specimen first labelled "*P. crinita*," but corrected to this, and two fertile unlabelled specimens. (Fitzwilliam, common).
57. PHYSCIA PULVERULENTA (Schreb.) Nyl. Three fertile specimens, thus labelled. Also one fertile specimen labelled "*Physcia aquila defousa*," one fertile unlabelled specimen, and one sterile specimen labelled "*Par. saxatilis* v. *omphalodes*," in which the cortical layer is distinctly parenchymatous is referable to the following:
58. PHYSCIA PULVERULENTA LEUCOLEIPTES Tuck. One sterile specimen labelled thus belongs here. Five specimens, one labelled "*P. pulverulenta*," one "*Physcia ulothrix*," and one "*Physcia aquila*" appear to belong here, but are too small for sure determination. Also one specimen, sterile, first labelled "*Parmelia saxatilis omphalodes*," but changed to "*Pyxine*." (Fitzwilliam, uncommon).
Physcia Leana Tuck. One fertile specimen, thus labelled, seems to belong here though I have been unable to obtain specimens for comparison.
59. PHYSCIA STELLARIS (L.) Tuck. Eight fertile specimens, labelled thus, of which two may possibly be referable to the form *aipola* Nyl: also eight fertile unlabelled specimens. One specimen labelled "*Physcia squamosa*," and one "*Physcia stellaris expansa*," later corrected to "*astroidea*," both belong here. Also one fertile specimen labelled "*Physcia obscura*." (Fitzwilliam, common).
60. PHYSCIA TRIBACIA (Ach.) Tuck. Four fertile specimens, labelled thus, belong here. One sterile specimen labelled "*Speciosa*," also three unlabelled specimens, two fertile and one sterile, and three specimens, one fertile, labelled "*Physcia caesia*," "*Physcia astroidea*," and "*Parmelia ambigua* v. *albescens*."

The May BRYOLOGIST was issued May 1, 1909.



Mr. George Alexander Wheelock explaining his interpretation of the clay beds at Keene, N. H., Oct., 1899. Photograph taken by Mr. M. L. W. Field.

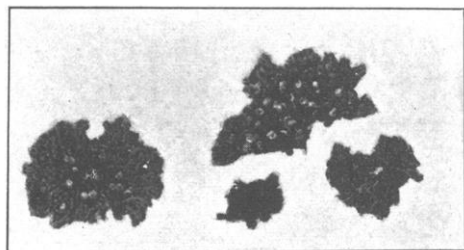


PLATE VIII. *Physcia caesia* (Hoffm.) Nyl.

PHYSICIA HISPIDA (Schreb., Fr.) Tuck. Six specimens, all sterile. One is labelled "*Physcia hispida*, Nantucket," two others "*Physcia comosa*, Nantucket." There is no reason to suppose that this group of specimens came from any other locality than Nantucket.

61. PHYSICIA CÆSIA (Hoffm.) Nyl. Nine specimens, one fruited, thus labelled, belong here. One labelled "*Physcia caesia* v. *squmulosa*," and two, one fertile, labelled "*Parmelia ambigua* v. *albescens*" also belong here, as well as two unlabelled specimens, one of which is doubtful on account of its small size. (Fitzwilliam—one example, first called *Physcia stellaris aipola*).

This species it seems to me should be much commoner in herbariums than it is, and perhaps this is because it is so often confused with *P. tribacia* (Ach.) Tuck., which species, if in the typical state, it does not in the least suggest. It seems however, to me to be probably overlooked as abraded conditions of *P. stellaris*, or the rare *P. astroidea*. Without attempting to be critical I am convinced that the material distributed (judged by the specimen I received) by Mrs. C. W. Harris (BRYOLOGIST—offering of March) is *tribacia* rather than *caesia*, and the accompanying illustration of a specimen determined by Prof. Tuckerman it is hoped may help in the further determination of material by members of the Moss Society.*

62. PHYSICIA OBSCURA (Ehrh.) Nyl. Nine specimens, seven fertile, are all labelled thus, and belong here; also one fertile specimen labelled "*Physcia* v. *ulothrix*," and one unlabelled sterile specimen. (A much reduced sorediate state is found on the stone walls at Fitzwilliam).
63. PHYSICIA OBSCURA ENDOCHRYSEA Nyl. Six fertile specimens, three unlabelled, one labelled "*Physcia erythrocardia*," one "*Physcia endocrysea*," and one "*P. obscura* v." also belong here. (Fitzwilliam, common).
64. PHYSICIA SETOSA (Ach.) Nyl. Two sterile specimens labelled thus belong here, and five unlabelled sterile specimens. One fertile unlabelled specimen also belongs here. Mounted with one of these is an undeterminable *Physcia*.

PHYSICIA ADGLUTINATA (Floerk) Nyl. Two specimens, one labelled "*P. agglutinata*" is possibly referable here, though it is unusually large lobed. Another labelled as above, is *Parmelia Borreri rudecta* Tuck.

A sterile specimen labelled "*Physcia granulifera*?" first labelled "*Pannaria lanuginosa* v. *granulosa*" appears to be *Parmelia saxatilis* (L.) Fr.

GENUS: PYXINE, FR. TUCK.

65. PYXINE SOREDIATA Fr. Four specimens, three fertile, thus labelled, belong here. (Fitzwilliam, common). CONCORD, MASS.

TO BE CONTINUED.

* See also fine colored figure in Hoffman's Descriptio et Adumbratio Lichenes, 1790, p. 37, Tab. VII. fig. 2 a. b.